

APPLICANT(S): SHERMAN Menny
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AMENDMENTS TO THE CLAIMS

Please amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled. The listing of claims will replace all prior versions, and listing of claims in the application.

Listing of Claims

1. **(Currently Amended)** A method comprising:
 - electrically connecting a first terminal of a measurement device to both wires of a twisted wire pair of a telephone line, said telephone line interconnects a telephone line card with a subscriber;
 - electrically connecting a second terminal of said measurement device to a common reference; and
 - performing an impairment line testing on said telephone line from said measurement device toward said subscriber while the first terminal is connected to said both wires of the twisted wire pair and the second terminal is connected to the common reference by transmitting a signal and receiving a reflected signal via the first terminal along the telephone line.
2. (Previously Presented) The method of claim 1, wherein electrically connecting said first terminal comprises short-circuiting between said both wires of said twisted wire pair.
3. (Original) The method of claim 1, wherein said common reference is a ground reference.
4. (Original) The method of claim 1, wherein performing said impairment testing comprises using a time domain reflectometer.
5. (Original) The method of claim 1, wherein performing said impairment line testing comprises determining the distance between the location of said measurement device and the location of the termination of said telephone line at the premises of said subscriber
6. (Original) The method of claim 1, wherein electrically connecting said first terminal comprises electrically connecting said first terminal to both wires of

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said twisted wire pair of said telephone line at the proximity of a main distribution frame unit.

7. **(Currently Amended)** ~~[[A]]~~ The method of claim 1, wherein performing the impairment test comprises comprising:

automatically and sequentially performing ~~[[an]]~~ the impairment line testing on a plurality of telephone lines, wherein at least a portion of said telephone lines are active telephone lines and at least one of said telephone lines is a spare line, and performing the impairment line testing on the active lines is done without disconnecting said active telephone lines from their respective telephone line cards.

8. **(Currently Amended)** The method of claim 7, wherein performing said impairment line testing comprises determining the distance between the location of ~~[[a]]~~ said measurement device coupled to one of said telephone lines and the location of the termination of said telephone line at its respective subscriber premises.

9. (Original) The method of claim 7, wherein performing said impairment line testing comprises coupling a measurement device at the proximity of a main distribution frame unit.

10. (Original) The method of claim 7, wherein performing said impairment line testing comprises performing said line testing on one of said active lines when said active line is carrying telephone signals.

11-14. (Cancelled)

15. **(Currently Amended)** The method of claim 7 further comprising:

identifying one of said plurality of telephone lines as the spare telephone line;

electrically connecting ~~[[a]]~~ said first terminal of ~~[[a]]~~ said measurement device to a first wire of a twisted wire pair of said spare telephone line;

electrically connecting ~~[[a]]~~ said second terminal of said measurement device to a second wire of said twisted wire pair of said spare telephone line; and

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performing an impairment line testing on said spare telephone line while the first and second terminals are connected to said spare line.

16. **(Currently Amended)** An apparatus comprising:

a line selector unit connectable to twisted wire pairs of telephone lines able to select one of said wire pairs for an impairment line testing;

a line status detector to identify the status of said telephone lines; and

a configuration unit coupled to said line selector unit and to said line status detector and able to electrically connect a first terminal of a measurement device to both wires of a twisted wire pair of a selected telephone line and a second terminal of said measurement device to a common reference when said selected telephone line is identified as an active telephone line,

wherein said apparatus is to perform said impairment line testing on said active telephone line from said measurement device toward a subscriber of said active telephone line while the first terminal is connected to said both wires of the twisted wire pair of said active telephone line and the second terminal is connected to the common reference by transmitting a signal and receiving a reflected signal via the first terminal along the telephone line.

17. (Original) The apparatus of claim 16, wherein said configuration unit is able to create short-circuit between said wires.

18. (Original) The apparatus of claim 16, wherein said common reference is a ground reference.

19. (Original) The apparatus of claim 16, wherein said measurement device is a time domain reflectometer.

20. (Original) The apparatus of claim 16, further comprising:

a controller to instruct said measurement unit to perform said impairment line testing.

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21. (Original) The apparatus of claim 16, wherein said configuration unit comprises a splitter, said splitter is able to prevent signals having a frequency below a predetermined threshold to be transmitted from said measurement unit to said selected telephone line.
22. (Previously Presented) The apparatus of claim 16, wherein said splitter is able to provide substantially low impedance emulating a short-circuit between said first wire and said second wire at frequencies above said predetermined threshold.